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summary tables or ast and aggregate function

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### System and method for incrementally maintaining non-distributive aggregate ...

US Pat. 7020649 - Filed Dec 30, 2002 - International Business Machines Corporation

If an AST is 50 automatically refreshed in the same unit of work as the changes

... aggregate functions in material- 60 ized views of relational databases. ...

### [APPLICATION] Incremental AST maintenance using work areas

US Pat. 10643644 - Filed Aug 19, 2003

[0006] Automatic Summary Tables (ASTs), which are also known as materialized views

... eg, those only containing distributive aggregate functions. ...

### Matching and compensation tests for optimizing correlated subqueries within ...

US Pat. 7167853 - Filed Nov 5, 2002 - International Business Machines Corporation

Condition (2) makes sure that the aggregate functions computed by the subsumer

... M. Urata, "Answering Complex SQL Queries Using Automatic Summary Tables," ...

### Incremental maintenance of summary tables with complex grouping expressions

US Pat. 6763352 - Filed Dec 2, 1999 - International Business Machines Corporation

STEP III: Pairing the Delta to the Summary Table After aggregation, ... In this

case, all aggregate functions (with the exception of COUNT( )) return NULL, ...

### Analyzing, optimizing and rewriting queries using matching and compensation ...

US Pat. 6847962 - Filed Feb 11, 2000 - International Business Machines Corporation

10A (boxes 1001-1003) shows the QGM graph for the QGM graphs for the AST and the

... The appropriate derivations for aggregate functions are listed below. ...

### [APPLICATION] Query optimization technique for obtaining improved cardinality estimates ...

US Pat. 10807871 - Filed Mar 24, 2004

In block 200, the Query Optimization System 124 identifies simple, vertical

automatic summary tables (asts). An ast is simple if the query defining the ast ...

### [APPLICATION] Method and apparatus for data analysis

US Pat. 10668354 - Filed Sep 24, 2003

Most recently incrementally updating an AST in accordance with a method of updating

AST's that applies to all "aggregate functions" has been proposed. ...

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